

इंटरनेट

मानक

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IS 10576 (1983): Dimensions for modular units for machine tool construction - Wing bases for slide units [PGD 3: Machine Tools]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

DIMENSIONS FOR MODULAR UNITS FOR MACHINE TOOL CONSTRUCTION—WING BASES FOR SLIDE UNITS

1. Scope — Specifies certain dimensions relating to the interchangeability of wing bases for slide units used in special purpose machines constructed from modular units.

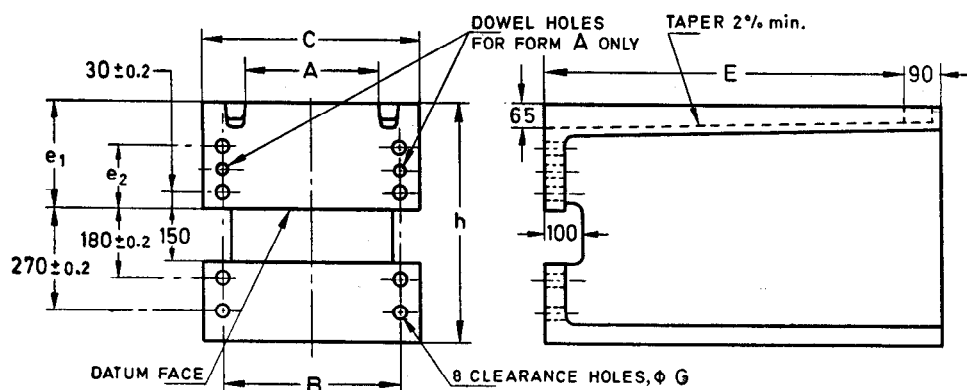
2. Nominal Size

2.1 The nominal size of wing bases for slide units shall be given by nominal width of the saddle on the related slide units (see IS : 9722-1981 Dimensions for modular units for machines tool construction — slide units)

2.2 The wing bases for slide units shall have the following six sizes:

250, 320, 400, 500, 630 and 800 mm

3. Dimensions



Note — See also 4.1.

All dimensions in millimetres.

Nominal Size	<i>A</i> <i>Min</i>	<i>B</i> ±0.2	<i>C</i>	<i>E</i> <i>Min</i>	<i>G</i> Clearance Hole to Suit Thread Size	<i>h</i>	<i>e</i> ₁ ±0.2	<i>e</i> ₂ ±0.2
250	270	395	450	850	M20	560 or 630	(210)	(110)
320	340	465	520	1 100				
400	420	545	600	1 300				
500	520	645	700	1 500				
630	650	775	830	1 750	M20 or M24		280	160
800	820	945	1000	2 100				
Note — Dimensions within brackets refer to <i>h</i> = 560.								

Adopted 14 March 1983

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4. Location of Wing Bases

4.1 Wing bases for slide units shall be located on centre bases by means of either of the following two forms:

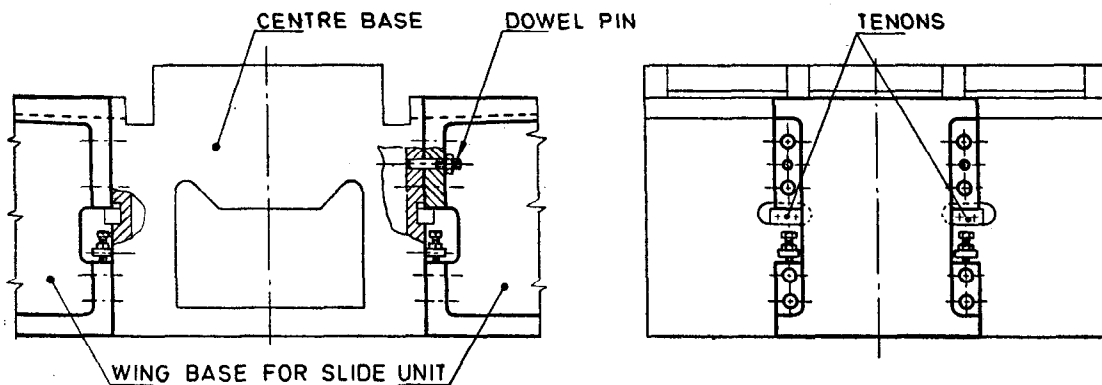
Form A For locating wing bases for slide units on centre bases with dowels and tenons.

Form B For locating wing bases for slide units on centre bases with tenons (preferred).

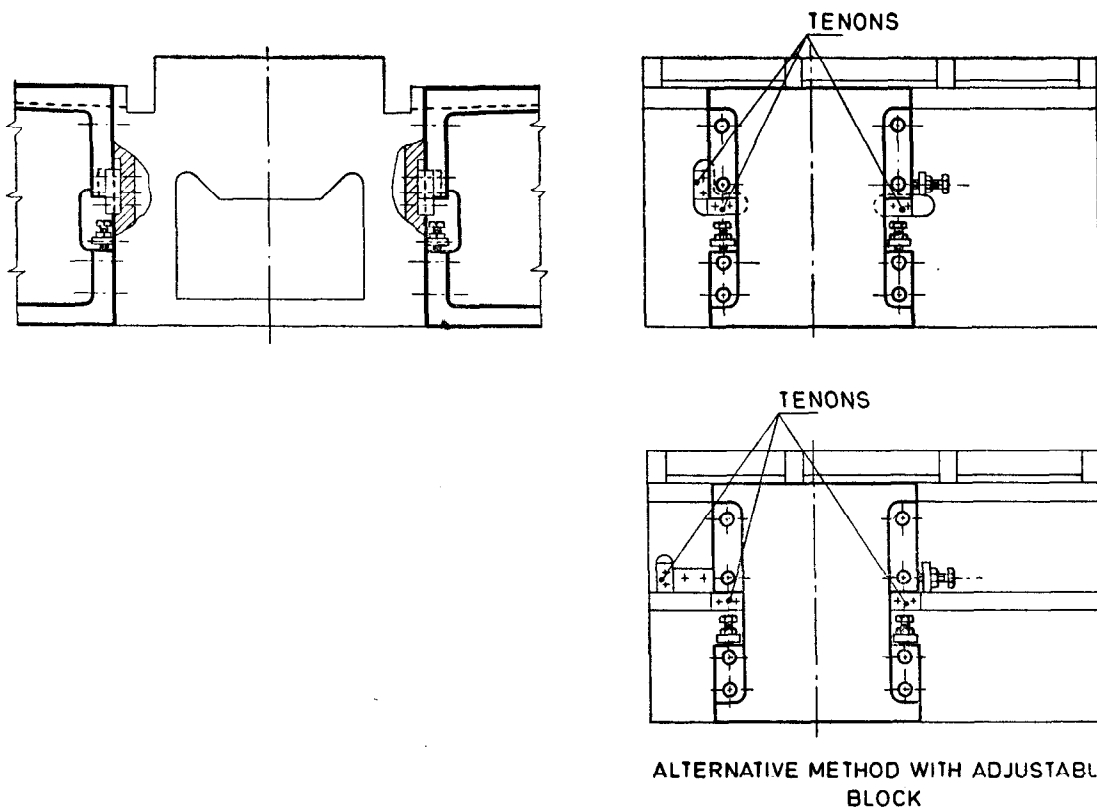
4.2 If dowels are used, the dowel holes shall be midway between upper pair of fixing bolts irrespective of which bolting pattern is employed (see figure under 3) and dowel pin shall be perpendicular to joint face.

4.3 The location of wing bases for slide units on centre bases for Form A and Form B (see 4.1) shall be as shown below :

Form A Location of wing bases for slide units with dowels and tenons.



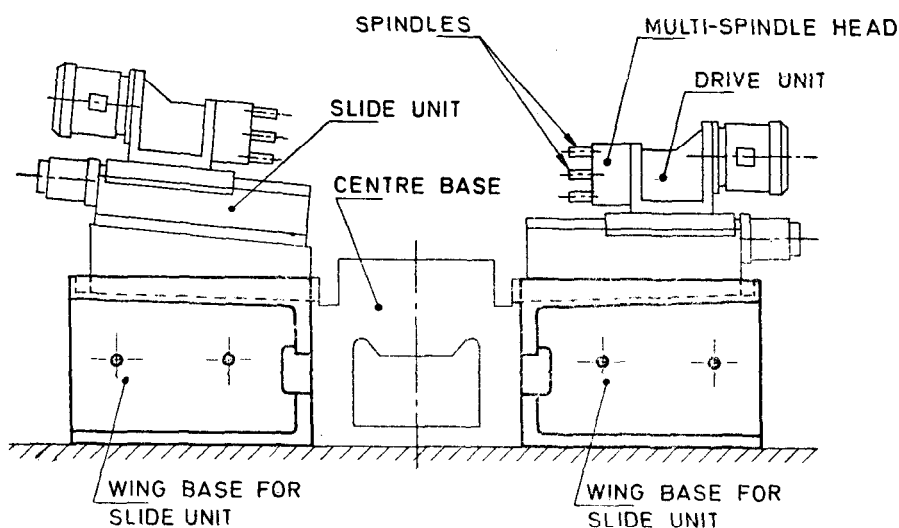
Form B Location for wing bases for slide units with tenons.



5. Designation — A wing base for slide unit, Form A of nominal size 400 mm, height 630 mm shall be designated as :

Wing Base for Slide Unit A 400 × 630 IS : 10576

6. Typical applications of modular units shall be as shown below:



EXPLANATORY NOTE

In preparation of this standard, assistance has been derived from the following standards:

ISO 2769-1973 (E) 'Modular units for machine tool construction—Wing base for slide units' issued by International Organization for Standardization (ISO).

DIN 69523-1979 'Machine tools, modular units, wing bases for slide units, constructional sizes' issued by the Deutsches Institut für Normung (DIN).



AMENDMENT NO. 1 MARCH 1987

TO

IS:10576-1983 DIMENSIONS FOR MODULAR UNITS FOR
MACHINE TOOL CONSTRUCTION - WING BASES FOR
SLIDE UNITS

(Page 1, clause 3, tabular matter, col 'h') -
Substitute '(560)' '560'
630' for or
630'

(Page 1, Note under tabular matter) - Delete.

(EDC 11)

Reprography Unit, ISI, New Delhi, India